

IN THE CLAIMS:

Please amend claims 7-9 as follows:

1-6. (Cancelled)

7. (Currently Amended) A magnetic sensor head that senses an external magnetic field using a spin-filtered sensor current flowing through a non-magnetic layer, and further comprising:

a pair of ferromagnetic bodies provided on the non-magnetic layer and positioned parallel to an axes of magnetization of each of the ferromagnetic bodies; and

a power source that uses the ferromagnetic bodies as electrodes to supply the sensor current,

wherein the non-magnetic layer is formed of a semiconductor material; and

~~wherein~~ the axes of magnetization of one of the pair of ferromagnetic bodies changes so as to detect an external magnetic field, ~~and~~

wherein said semiconductor material constituting said non-magnetic layer causes to flow a current therethrough from one of said ferromagnetic bodies to the other of said ferromagnetic bodies,

said magnetic head being used with a magnetic recording/reproducing apparatus for detecting a signal from a magnetic recording medium.

8. (Currently Amended) The magnetic ~~sensor~~head as claimed in claim 7, wherein the semiconductor material is indium aluminum arsenide.

9. (Currently Amended) The magnetic ~~sensor~~head as claimed in claim 7, wherein the semiconductor material is indium gallium arsenide.

10-11 (Cancelled)